

DOCUMENT RESUME

ED 065 380

SO 002 454

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TITLE A Behavioral Approach to the Teaching of Social Studies. An Application of Cognitive and Affective Process Models Performance Tasks and Criterion Measures.
INSTITUTION Washington Univ., Seattle. Tri-University Project in Elementary Education.
SPONS AGENCY Office of Education (DHEW), Washington, D.C.
PUB DATE May 68
NOTE 61p.
EDRS PRICE MF-\$0.65 HC-\$3.29
DESCRIPTORS Behavioral Objectives; Curriculum Planning; Elementary School Teachers; Learning Processes; *Methods Courses; Performance Criteria; *Preservice Education; *Social Studies; Student Evaluation; *Student Teaching; Teacher Behavior; Teacher Education Curriculum; Teacher Evaluation; Teacher Role; *Teaching Models

ABSTRACT

Described in this document is a schedule of teacher behaviors specified as being most appropriate for preservice elementary social studies teachers. Pre-teaching tasks are allocated to the social studies methods class; teaching-learning and post-teaching tasks to the student teaching experience. The tasks, stated in behavioral terms, are recommended terminal behavior criteria for teacher candidates. Pre-teaching tasks involve: 1) planning activities that increase the scope and body of social science content and methods and increase pupil performance in cognitive and affective skills; and, 2) planning activity sequence, transitions, evaluations, and multimedia resources. Elements of the teaching-learning process are: questioning, discussion, use of resources, teacher-pupil planning, cueing, and reinforcing. These are presented in two sections, one focusing on the teaching process, the other on the learning process. The final behavior group, post-teaching tasks, defines the behavior of the teacher in the evaluative role. Appendices referred to in the text are: Examples of Pre-Teaching Tasks; Example of the Teaching-Learning Processes; and, Synthesis Model of the Teaching Learning Process Related to its Sources. (DJB)

ED 065380

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A BEHAVIORAL APPROACH TO
THE TEACHING OF SOCIAL STUDIES

AN APPLICATION OF
COGNITIVE AND AFFECTIVE PROCESS MODELS
PERFORMANCE TASKS AND
CRITERION MEASURES

50.002 454

A Monograph Prepared by
THE TRI-UNIVERSITY PROJECT IN ELEMENTARY EDUCATION
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May 1968

PREFACE

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The ideas in this document were developed by the college post-doctoral participants in the Tri-University Project in Elementary Education (social science-social studies) at the University of Washington, Seattle, during the 1967-68 academic year. The project was supported by a grant from the U. S. Department of Health, Education, and Welfare, Office of Education.

The document addresses itself to those tasks deemed to be essential to the successful teaching of social studies in elementary school classrooms. It seeks to answer the question, "What must the beginning elementary teacher be able to do in order to teach social studies successfully?" The emphasis is clearly on teaching behavior. Moreover the document stresses that there are minimum or criterion levels of teacher behavior that discriminate between successful and unsuccessful teaching performance. We believe these ideas to be reflective of a significant new direction in the preparation of teachers in the social studies field.

In developing their ideas, the contributors assumed that the teacher in training will have other supporting work in education and psychology that will acquaint him with general concepts and procedures relating to elementary school teaching. Therefore, this document focuses exclusively on teaching the social studies. It does not concern itself with classroom management, discipline, the total classroom environment and other similar matters relating to teaching.

The authors also assume that learning to teach elementary social studies means working with pupils over an extended period of time. Some contact with pupils is necessary during the time the student is taking his methods course. This experience is enlarged during his

student teaching assignment. It is expanded still more during his first year of teaching. The authors insist that successful teaching of social studies will be enhanced if there is congruency in teaching performance expectations in all three of these experiences. This document should therefore be of assistance in establishing similar expectations in the methods class, in the student teaching experience, and finally on the job.

We present this document, then, as a first effort rather than as a final and finished statement of performance criteria. It is hoped, however, that others may profit from these ideas and, indeed, will be sufficiently stimulated by them to refine and extend what is presented here.

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University of Washington, Seattle
May, 1968**

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Introduction

In the preparation of teachers for the decades ahead, educators are able to draw upon tools that have emerged from the unprecedented attention education has received since the 1950's. Notable among recent developments has been the attempt to view the roles of teachers in terms of stated behaviors, specifically defined. Such materials as Bloom's Taxonomy have provided direction for stating behaviors in dimensions identifiable and measurable by the observer.

It is with this in mind that the following document was developed. The teaching of social studies has suffered in the past, it seems, from a lack of clearly stated behaviors deemed essential by the classroom teacher. The following assumptions and the tasks that follow, in turn, are viewed as a reasonable format to aid in the preparation of the elementary school teacher in his role as social studies teacher.

Assumptions

1. Teaching competencies of elementary school teachers of social studies can be stated in behavioral terms. Teaching competencies are those overt expressions, either oral or written, specific to the activities of a teacher prior to, during, or following contact with pupils in a learning situation. Behavioral terms as used here refer to those activities of a teacher that are observable and quantifiable. Further, any behavior used herein would have consensus among teachers (i.e.: a learning experience such as arranging for and conducting a group discussion would be readily identifiable as such by professional teachers.)

2. The description of behaviors expected from beginning teachers can be used as the criteria for terminal behavior on the part of candidates who have taken the methods course plus student teaching.

3. Once behaviors of the beginning teacher are described, they can be allocated between student teaching and the methods course. A sequence can be established. It would appear that the pre-teaching tasks will be allocated to the methods course, for the most part. The competencies represented in the teaching tasks and post teaching tasks will be demonstrated during student teaching. In some instances, (e.g. where an intern situation exists in lieu of an abbreviated student teaching situation) the teaching and post teaching tasks will be demonstrated by the intern during that phase of his preparation.
4. Teaching style is subordinate to the quality of pupil learning achieved.
5. The prime focus must be on pupil learnings and their effective learning strategies. Teaching strategies become the "structures" which enhance pupil learning--hence "teaching strategies" cannot be isolated and seen as an entity separate from pupil learnings.
6. The teaching task can be divided into three major segments--preparation for meeting the class (the pre-teaching task), working with pupils in the instructional setting (the teaching task), and analysis and evaluation of the experiences in the instructional setting (the post-teaching task). These re-cycle daily.
7. The methods course will require supervised first hand experiences with elementary pupils in the classroom (observation-participation, micro-teaching, etc.) to provide a reality base for pupil learnings.
8. Student teaching becomes an experience where integration of the learning from the methods course (theory and experience) becomes molded through the consecutive days with a specific group. This is seen as a counterpart to the medical intern going into residency.
9. The teacher as a student of education in a broad sense is a role deferred to a point after certification. The term student of education

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refers to those aspects of a teacher's professional role not associated with initial preparation for instruction. It refers to post-graduate study involving such courses as those leading to an advanced degree.

PRE-TEACHING TASKS

Prior to actual classroom contact with pupils, the teacher must be able to perform certain planning and preparation tasks. Sound planning does not necessarily ensure good teaching. On the other hand, weak planning cannot result in strong teaching. Those essential pre-teaching tasks are described in this section.

I. Pre-Teaching Tasks.

- A. Given a group of pupils for whom the teacher is responsible, he should plan learning experiences for the year that will increase the scope and body of principles, generalizations, models, and supporting data from the social science disciplines used by the pupils in their work.
 1. Given topics or subject matter designated for the class or grade level, the teacher chooses appropriate high order generalizations from the social science disciplines (such as those found in the Merrill pamphlets, the California Framework, the Wisconsin Framework, and the NCSS publication) around which to organize instruction. (See appendix, Pre-Teaching Task, item A)
 2. The teacher formulates a group of lower order generalizations (child-size, or supporting statements, that would approximate what might be expected to come from pupils progressing toward the desired generalizations) that must be developed in the process of reaching the high level generalizations. (See B-1,2)
 3. Given a group (list) of high order generalizations around which to organize instruction, the teacher identifies five to eight main ideas for the year's program that
 - a. Cut across the disciplines represented by the generalizations
 - b. Supply criteria for how far to go into what content. (See C)

4. The teacher identifies the key concepts imbedded in each of the generalizations selected as well as for the lower order generalizations and the main ideas. (See D)
5. Given a group of five to eight big ideas (as per 3 above), each of which is to serve as the focus for several weeks of instruction, the teacher identifies appropriate content samples that will provide the contrast necessary for the development of these main ideas. (See E)
6. Given a group of five to eight big ideas (as per 5 above), (Bare mini- with appropriate contrasting samples, the teacher identifies ~~minimum for~~ terminal ~~at~~ the appropriate cognitive skills to be developed, the academic performance) skills required, the necessary social skills, and the attitudes to be fostered. (See Functions for F 1-22)
7. For each of the main ideas the teacher is able to
 - a. Indicate appropriate methods of inquiry to be employed for each set of examples, (See F 1-22)
 - b. Select intervening experiences representing a variety of levels of abstraction, using Dale's Cone of Experience as a criterion measure, and (See F 1-22)
 - c. Formulate an instruction sequence for each of the main ideas which will include rotations of the following:
 - (1) Intake and expressive activities, (Intake: See F 2,3, etc., Expressive: See F 4,5,6 etc.)
 - (2) Cognitive and inquiry skills, (See Functions for F 1-22)
 - (3) Academic skills required, (See Functions for F-1-22)
 - (4) Social skills necessary or desired, and (Implicit in grouping)
 - (5) Attention to the attitudes to be fostered. (See F 19-20)

8. Given a course of study which provides 1 - 5 above, or (Minimum for Initial classroom Performance) include the essence of 6 and 7.
 9. The teacher translates 1 - 8 above into statements of behavioral objectives for the pupils in his classroom. (See F 1-22)
 10. The teacher provides alternatives to accommodate the needs of individual pupils for whom the original statements of objectives (9 above) are not appropriate. (See F 2&3,5&6, etc.)
 11. Upon preparation of a unit of work or a specific lesson, the teacher specifies the evaluative criteria to be used and
 - a. Prepare the appropriate instruments/materials to be employed for this purpose, being careful to (see F 7 & 14)
 - b. Insure that it contains items distributed across levels of thinking (as represented by Bloom, Sanders, Taba, etc. and/or
 - c. Ascertain that it includes devices appropriate for appraising the development of necessary "tool" skills.
- B. Given a group of pupils for whom the teacher is responsible, he is able to plan learning experiences for the year that raise the level of pupil performance (over the initial levels which they display at the beginning of the year) in the cognitive skills.
1. The teacher plans experiences that will develop the ability on the part of all pupils to locate information on maps, globes, charts and graphs; in film strips and films; and from pictures and models. (See F 2,3,4 & 5, etc.)
 2. The teacher is able to plan experiences that will develop the ability on the part of pupils, according to individual ability levels and in keeping with the nature of the materials available,

to locate information in encyclopedias, atlases, almanacs, newspapers and other periodicals, the card catalog, and in trade books and texts. (See F 2, 9)

3. The teacher plans activities for the pupils that will enable them and require them to interpret, analyze, and synthesize information from a variety of sources--oftentimes making inferences which go beyond the data, and frequently developing generalizations. (See F 5, 7, 8; 11, 12, 14, 15; 17, 18, 19)
 4. The teacher provides a variety of models for organizing information in a form which facilitates interpretation, making inferences, comparison, and generalizing. (See F 4, 11, 19)
 5. The teacher demonstrates his ability to do the following:
 - a. Plan a variety of ways for helping pupils to apply their inferences and generalizations to novel settings; (See F 22)
 - b. Help pupils analyze their applications by examining the adequacy of support data (the relevancy to the task, the nature of the evidence--is it definitive? descriptive? logical inference? the source?): and (See F 23)
 - c. Lead pupils to evaluate the credibility or feasibility of the application in terms of the geographical and cultural setting. (See F 23, 24)
- C. Given a group of pupils for whom the teacher is responsible, he is able to plan learning experiences for the year that will raise the level of pupil performance in the affective skills.
1. The teacher plans activities that will encourage each pupil to do the following:
 - a. Listen attentively to the contributions of others. (See F 19, 20)
 - b. Respond to the content, rather than the person, with ideas of his own. (See F 20, 21)

- c. Identify and present his own position, supported with firm data, with increasing clarity, conciseness, and thoughtfulness. (See F 19,-21)
 - d. Reconsider, refine, and re-develop his position in the light of new ideas and/or discrepant evidence. (See F 19-21)
 - e. Make a conscious effort to be consistent in his treatment of similar problems couched in different settings. E.g. caste in India and caste in race relations in the U.S.
2. The teacher indicates a variety of techniques that can be employed to diagnose individual needs in the affective domain.
 3. The teacher indicates a variety of techniques for providing individual help according to the needs indicated.
 4. Given tapescripts of pupil discussions, the teacher summarizes and clarifies pupil viewpoints and positions. He is able to indicate how he might assume the role of devil's advocate in order to present unpopular viewpoints for class consideration
- D. Given a group of pupils for whom the teacher has undertaken A, B, and C above, he is able to specify the sequence of learning activities and the form of analysis to be employed in evaluating pupil learnings resulting from them.
1. The teacher indicates the techniques that will be used to identify initial pupil status regarding new skills or content prior to their introduction.
 2. For each assignment or task incorporated into the ensuing lessons (e.g. maps, charts, notebooks, artwork, etc.) the teacher stipulates the performance criteria to be employed.
 3. For each assignment or task the teacher indicates how individual needs will be diagnosed and incorporated into subsequent planning.

E. Given a group of pupils for which the teacher has undertaken A, B, C, and D above, he is able to specify the appropriate learning resources, including multiple media. Where they are not available, he is able to develop them as needed.

1. The teacher chooses from the learning resources (multiple media) available those which will best facilitate the pupil learnings he desires.
 - a. The selection provides for individual difference in learning style.
 - b. The teacher is able to create, or direct the pupils' so that they can create, those materials needed but not available.
2. The teacher states the criteria upon which the selection of the media was based, e.g.:
 - a. The developments of content is handled better than in other resources.
 - b. The data it contains is more up-to-date than that of the text.
 - c. The media chosen does a better job in less time than that required by other materials available.
 - d. No other materials of suitable nature were available.
3. The teacher specifies the criteria to be used in measuring pupil learnings following the use of the media selected.
4. The teacher organizes the learning environment in such ways as to facilitate the kinds of activities desired.
 - a. He arranges equipment in the classroom so as to facilitate the desired learnings.
 - b. He provides for pupil arrangement and re-arrangement (flexibility) in order to accommodate the learning activities taking place.

F. The teacher is able to build bridges between lessons and between units.

1. He employs the evaluation of the previous lesson(s) in making the plans for subsequent lessons.
2. He provides for individual differences at this time.
3. He insures that subsequent lessons build on the learnings of those taught previously.

G. The teacher is able to incorporate the examples from the Teaching Task materials into his planning as he translates A - E above into classroom performance.

Note: See Appendix for Post-Teaching Task for other evaluating materials.

PART II
THE TEACHING-LEARNING PROCESS

Teaching Behaviors

1. Questioning
2. Discussion
3. Use of Resources
4. Teacher-pupil planning
5. Cueing
6. Reinforcing

The Teaching-Learning Process

Introduction

The general assumptions made in the preceding section are also implied here.

In this section teaching and learning are viewed as two sides of the same coin. Two paradigms, however, have been developed. One focuses upon the teaching process (pink pages), singling out such common phrases as motivation, presentation, development, summary, and application. The other model focuses upon various cognitive and affective processes in children's learning (yellow pages). These processes are a synthesis of the learning processes or tasks developed by Taba, Suchman, Michaelis and others. Further details are given in Appendices C, D, and E.

A number of specific teacher behaviors or competencies have been identified. These include questioning, discussion, cueing, reinforcing, use of resources, and teacher-pupil planning. While the list is not exhaustive these behaviors are viewed as important technical skills or competencies that a teacher must be able to demonstrate. To avoid their becoming a mere "bag of tricks" if developed in isolation the behaviors have been defined and illustrated in the context of the two related paradigms of teaching and learning. Additional behaviors could be developed in the same way.

The paradigms or models may be used in several ways depending upon one's objectives. The teaching-process model lends itself well to large group instruction, demonstration, or lecture situations. The learning-process model is appropriate to problem solving, inquiry, discovery, or discussion situations. As the instructional requirements vary, elements may be selected from either of the paradigms and used as appropriate.

As in the previous section the behaviors or competencies are written as behavioral objectives, using readily observable terms as measures of performance. A number of specific illustrations are given for each aspect of the two paradigms. Detailed teaching plans showing the use of these behaviors in the context of a series of lessons are included in Appendices A and B. Video tapes have also been developed to illustrate several of the lessons.

Teacher Behavior #1
(Competency)

QUESTIONING
(Focused on the Teaching Process)

The Teacher is Able to Ask Questions that Result in:

Motivation	Presentation	Development	Summarizing	Application
Teacher asks questions to arouse interest, Poses a problem, asks a rhetorical question.	The teacher asks questions at the knowledge level: who-what-when-where?	<p>The teacher asks questions to clarify. Asks child to interpret his own statements, or oral statements of others.</p> <p>1. Why do you think the early pioneers wanted to move westward?</p> <p>Asks questions that bring out basic knowledge.</p> <p>2. How do you think we could solve the problem of urban slums?</p>	<p>Teacher asks questions to summarize.</p> <p>Uses questioning to review by recalling questions basic facts, relationships and analyses and syntheses mode.</p>	<p>Teacher is able to use questions for appropriate activities (homework-test projects, etc.)</p> <p>-14-</p>
		<p>Asks questions of Application, Analysis, Synthesis</p> <p>Asks questions to locate/and or determine the limits of the problem.</p> <p>3. Teacher begins an inquiry approach with a "mystery question."</p>	<p>Poses questions in the Affective domain to focus on values.</p> <p>Asks If-Then questions consistent with stated values - (alternative-consequences)</p> <p>Questions for review.</p>	

Teacher Behavior #2

**DISCUSSION
(Focused on the Teaching Process)**

The Teacher is Able to Guide a Class Discussion that Results in:

Motivation	Presentation	Development	Summarizing	Application
<p>The teacher can relate peer dynamics to the use of discussion.</p> <p>A. The need to belong and acceptance are recognized by making sure that each child can and does contribute structures to a discussion.</p> <p>B. Uses group problem solving techniques.</p> <p>C. Organizes groups based on interests, ability, sociometric choice, etc.</p>	<p>The teacher presents and proposes rules for discussion. The uses of discussion are presented in various forms:</p> <p>A. Debate or formal structures.</p> <p>B. Role playing situations i.e. court scenes, historical debates, discussions carried on in Congress, etc.</p> <p>C. Discussions used for social and pleasure situations.</p>	<p>Discussion can and is used in teacher-pupil scanning. The teacher can help the child by encouraging more discussion on his part in discussion is used in the teacher-pupil planning situation.</p> <p>The teacher keeps records of the extent of participation of each individual in two or more discussion situations.</p>	<p>The teacher uses many oral situations to summarize projects, units or activities. Oral discussion is used in the kinds of situations in which the analytical and logical discussion would be of help.</p> <p>A. The use of "games" in social studies that stress problem solving.</p> <p>B. Committee panel that discuss the several points since not all children are "at home" in this situation.</p> <p>C. Discussing the values of solution already made in selected situation.</p>	<p>The teacher points out and develops situations which children can apply to units discussion. Children are able to anticipate the kinds of situations in which the analytical and logical discussion would be of help.</p>

USE OF RESOURCES
(Focus on the teacher process)

The teacher is able to handle resources that result in:

MOTIVATION	PRESENTATION	DEVELOPMENT	SUMMARIZING	APPLICATION
Teacher uses a film, filmstrip, bulletin board, etc. to set the stage as a starter or initiation.	Teacher uses chalk board, bulletin board, flannel board to show sequential order.	The teacher uses a map bulletin boards, chalk boards, flannel boards to summarize a field trip, list of items, trip, list of group reports.	The teacher uses filmstrips, records to prevent and correct misconceptions relative to dress, homes, villages of people.	The teacher uses pictures to assist pupils in developing critical judgement.
Teacher constructs a large floor map of the community.	Teacher uses filmstrip to show steps or process in detail (e.g. building a log cabin, making butter).	The teacher uses films to summarize, reinforce, or as a check-off of information	The teacher uses filmstrips and films to prevent and correct misconceptions relative to dress, homes, villages of people.	The teacher uses filmstrips and films to encourage further research to involve the students in critical thinking.
Teacher uses overhead projector, pictures, models to introduce a unit on space, astronomy.	Teacher uses a picture graph to show leading producers of dairy cattle.	The teacher uses bulletin boards, chalk boards, flannel boards to show progress of unit; process-stages in making a particular activity, recording or tabulating of opinions.	The teacher uses overhead projector and overlays to show outline of completed project.	The teacher uses filmstrip to develop one or more skills.
Teacher uses story in trade books to create interest.	Teacher uses a film to add understanding and information during the development of a unit.	The teacher uses film to develop one or more skills.	The teacher uses pictures to show relative size, e.g., men, camels, pyramids.	The teacher uses books, trade books, programmed material, recordings to provide different types of summaries.
Teacher uses overhead projector and overlays to compare one area with another.	The teacher uses pictures to raise questions and present problems.	The teacher uses graphics from a graph to compare two or more values.	The teacher uses films, textbooks, trade books, programmed material to provide information in a variety of ways.	

TEACHER BEHAVIOR #4

TEACHER-PUPIL PLANNING
(Focused on the Teacher Process

The teacher is able to make plans with pupils that result in:

MOTIVATION	PRESENTATION	DEVELOPMENT	SUMMARIZING	APPLICATION
		<p>When planning with pupils a teacher must:</p> <ol style="list-style-type: none"> 1. Allows time for thinking and exploring. 2. Has a high tolerance level for silence after a question. 3. Listens to and observes children with care. 4. Talks with children, not to them. 5. Builds his comments upon those of the pupils. 6. Displays an evident and felt concern for the group and individuals. 7. Encourages pupil to pupil interaction. 8. Elicits contributions from the less verbal - when appropriate. 9. Limits contributions from the more verbal - when necessary. 10. Proceeds within the limits of their ability to plan. 		<p>-17-</p>
MOTIVATION	PRESENTATION	DEVELOPMENT	SUMMARIZING	APPLICATION
	<p>Teacher encourages the discovery of problems Teacher accepts children's ideas Teacher reflects pupils' feelings</p>	<p>Teacher summarizes Teacher clarifies Teacher expands Teacher includes essentials the children forgot</p>	<p>Teacher asks questions broad to narrow Teacher gives information Teacher gives opinion Teacher includes essentials</p>	<p>Teacher plans so children will be able to see the results of their work Teacher anticipates directions children will take with a feeling of accomplishment Teacher plans a smooth transition to the next unit</p>
	<p>Teacher solicits negative as well as positive points of view</p>	<p>Teacher eliminates the impossible Teacher sets limits on some tasks</p>	<p>Teacher eliminates the impossible Teacher sets limits on some tasks</p>	<p>Teachers and Pupils Plan: How to close the study How to share the knowledge The form the summary will take</p>
		<p>Teacher Plans for best physical setting</p>	<p>For additional activities for individuals who desire to pursue the topic further</p>	<p>Teacher and pupils plan: The culminating activity procedures To make decisions To pass judgements</p>
		<p>Teacher encourages individuals to take leadership</p>		

MOTIVATION	PRESENTATION	DEVELOPMENT	SUMMARIZING	APPLICATION
<p>Teacher & pupils Plan: How to proceed with the new topic Ways to relate new studies to other experiences</p>	<p>Teacher and pupils Plan: To form focus-set goals For the social studies together.</p> <p>To find sources of information</p> <p>To decide how to attack the problem</p>	<p>Pupil and Teacher Plan: Let's try to pull things together.</p> <p>To find additional sources of information had to write someone and tell him the important abilities</p> <p>To make decisions and things we learned in this unit?</p>	<p>What causes . . .</p> <p>What can we do to find out?</p> <p>You seem puzzled by . . .</p>	<p>To improve future planning sessions</p> <p>Appropriate out of school use of the new information and/or abilities</p> <p>Do you have suggestions for sharing your new knowledge with others?</p> <p>How can we tell if we really understand the topic we have been studying?</p> <p>Let's make sure we have considered all the alternatives and their consequences.</p> <p>How might we have improved our planning for this study?</p>
<p>What causes . . .</p> <p>What can we do to find out?</p> <p>You seem puzzled by . . .</p>	<p>What do you need to know to answer the questions you asked?</p>	<p>Have we listed all the important questions?</p> <p>Where shall we start?</p> <p>Will our plans lead us to a well rounded picture of our subject?</p>	<p>What experiences will:</p> <ul style="list-style-type: none"> (1) give us the best information (2) can be accomplished in the time we have? <p>Can you think of other sources of information?</p> <p>Are our questions thought provoking and worthy of our attention?</p> <p>Can some questions be answered by individuals?</p>	<p>Let's see how we can best spend our time today.</p> <p>You probably have suggestions for organizing the information you are gathering.</p>
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CUEING
 (Focused on the Teaching Process)

Teacher Behavior #5

The Teacher is Able to Use Cueing that Will Result in:

Motivation	Presentation	Development	Summarizing	Application
You will be interested in. . .	Cue student 5-10 minutes ahead so student can find of think of answer.	Did the materials' give you any ideas? You mentioned you didn't quite understand this. Let me state it in a different way. Can one of you restate... so we will have another way to look at statement.	Cue student 5-10 minutes in advance so student can prepare his contribution.	What do you think of what we have done? How do you plan to use it?
You want to become able to. . . so I think you will like this.	Do you understand what you are to do? How does this relate to what you did?	I think Group A will find interesting, Group B will like. . . Group C will find much challenge to solve. . .	Who wants to check files or books etc. to see how others summarized?	What do we need to change?
You were absent yesterday, but I think you can figure out an answer to this. Yesterday we. . . What do you think?	Use analogy that has characteristic similar to the concept or these of lesson.	Some problems you might have include... but I think if you... you can handle. You are especially good at finding clues from pictures, would you..?	Do you have other ideas you think of something else?	Do you have other ideas?

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Shift sensory channels or vary style of teaching.	You said earlier (last week, on Playground, in paper, etc), Have you more ideas on this?	at finding clues from pictures, would you..? Repeat...Pause...Go on (Use literal repetition and figures of speech.	Give an example of... that uses our findings from. . .	Highlight visually.
on	on	from	from	more.
Playground,	Playground,	literal	our findings	Emphasize verbally and tell me more.
in paper,	in paper,	repetition	from	Can you tell others what you mean in a different way?

How was this important?
 What you mean in a different way?
 Can you explain...?

<p>Organizes materials in appealing ways.</p> <p>Were you ever curious about...?</p> <p>Do you want to find out more about...?</p>	<p>Ask questions in small steps as in program.</p> <p>Give hint of answer.</p> <p>Give clue to answer.</p> <p>Steps 1,2,63 are... What's next?</p>	<p>Define words or concepts.</p> <p>If... then what, why, etc.?</p> <p>Show film, play record, etc. to review what studied so far.</p>	<p>Clarify by comparison or contrast. Then ask student to tell in one (limited) sentence ideas.</p> <p>Do you remember answer to...?</p> <p>Does that answer the question? Is that on this subject?</p>	<p>Clarify by:</p> <p>Let's look again at... That's possible.</p> <p>Hmm... Very interesting (TV quotes)</p> <p>Remember now, we were talking about... Let's not get this confused with. . .</p> <p>Now think carefully. . .</p>	<p>Can you think of a related problem we studied?</p> <p>What startled you, was unusual, made you think, "Oh, my goodness." in movie?</p> <p>Do you remember how we talked about...?</p>	<p>Clarify by: Tell or draw or act to show meaning.</p> <p>Can you act out what was said?</p> <p>Can you make a chart from what you have found?</p> <p>What stood out for you--something that happened in movie?</p> <p>Is that actually...?</p> <p>Let's get back to the original question (state question again)</p> <p>You have said... How would this affect...?</p> <p>We talked about... What do you think would occur if...?</p> <p>Now that we have listed all the... we can think of, let's try to list... Such as?</p>

Teacher Behavior #6

**REINFORCING
(Focused on the Teacher Process)**

The Teacher is Able to Use Reinforcing in a Way that Will Result in the Use of Valid Reinforcements for Producing:

Motivation	Presentation	Development	Summarizing	Application
You were successful when you attempted this recently so... if. . . , you can do... .	Show enthusiasm for... "Yes, that's the correct answer" (plus two variations) I like that-- You have gotten off to a good start. I especially like. . . I think you can. . . Make mental notes of what each child says for future leads. . .	"John or Group I suggested that . . . Mary, you look as if you understand the concept or figure out idea well enough to explain (predict, differentiate, etc.) Smile, frown, facial expressions. Bodily posture. Unhm, Right. partly right. Ask question you know student can answer correctly. Did you hear Tom's remark? Listen to what Tom has said again. Sue tells me you are doing a fine job. Judy tells me you contributed . . . idea to group.	Listen to John's theory. Do you agree? Disagree? You can record this for others to use. Well, that's an interesting idea, John.	Wasn't that an interesting idea? (Pause)
				-21-

Encourage students to say "I didn't understand that. Could Jim explain what he means?"

Does anyone have a different idea? (Student then hear correct response.)

I'd be happy too, if that happened to me.

Billy really knows. . .

We can be proud of . . .

Paul, this is one point we haven't touched on.

Tell joke to release tensions so can think anew.

I see..

That's fine, good, weak, all right, part of it true, etc.

Yes, no.

Approve, criticize, correct, amplify student's responses I like the way (Jane, Group A) is . . .

Of course you feel disappointed because. . .

No wonder you feel sad. Where did you ever get that idea? I said to. . . We shouldn't . . .

Where do you think you are?

Go on.

Now, this is a good point.

You certainly could do this. . .

TEACHER BEHAVIOR # 1
(Competency)

QUESTIONING
(Focused on the Learning Process)

The teacher is able to ask questions that result in:

I Determining the Focus	II Concept Formation	III Generalizing and making inferences from data	IV Valuing for policy making-identifying values, priorities alternative courses of action	V Application	VI Analysis and evaluation	VII Selecting a policy consistent with values of highest priority
The teacher asks questions to help initiate a unit or a short series of lessons. To determine the focus for study, that the teacher may ask questions to sify events or generalizations. To pose the problem ideas. To analyze the concepts are both teacher asking, or identify the working questions in language and which children the tools of (a) compare and contrast data from different studies. Teachers can entiation), (b) more and more help children interpret the factories become learn to form meaning of	Concepts (e.g. division of labor, scarcity, democracy) are ab- by the students. They express a or phrases relationship about focus for study, that are use-one or more cnc- choices. The teacher to develop for clas- cepts. To de- ask questions to sify events op generaliza- tions. Con- cepts. The teacher asks questions in language and which children the tools of (a) compare and contrast data from different studies. Teachers can entiation), (b) more and more help children interpret the factories become learn to form meaning of	Generalizations are brief statements that summarize large amounts of data gathered by the students. They express a or phrases relationship about focus for study, that are use-one or more cnc- choices. The teacher to develop for clas- cepts. To de- ask questions to sify events op generaliza- tions. Con- cepts. The teacher asks questions in language and which children the tools of (a) compare and contrast data from different studies. Teachers can entiation), (b) more and more help children interpret the factories become learn to form meaning of	Before a policy decision can be made, problem-solving task alternating courses of action must be identified and a priority of values established as a framework for making choices. The teacher to existing asks questions by or new situations. which children (a) identify alternative courses of action, (b) identify attitudes, beliefs and values, especially conflict-	To complete a children examine critically both the process and the product of their work. They action. This choice make a logical is guided by and is analysis of the hypotheses that values of highest priority expressed in Task IV, Valuing.	As a final step in the policy-making move, children select the "best" from among several possible alternative courses of work. They action. This choice make a logical is guided by and is analysis of the hypotheses that values of highest priority expressed in Task IV, Valuing.	-23- Children evaluate previous decisions. and the conclu- students may shift sions drawn. back to previous steps to re-assess They evaluate previous decisions.

automated?
2. What factors which (a) sum-
may account for arise their
the poor harvest observations;
of fish in the (b) help iden-
tify common
during the past properties or
few years?

concepts by certain data,
asking questions(c) make rea-
sonable infer-
ences based on
the data itself, and
a generalization.
ferences and the pri-
orities established.

- (a) Comparing and
contrasting (Diff-e.g. 1) What other
diferentiating things might Sam
define the
grouping.
1. What did you Adams have done?
note? See? Find?
2. What things solutions are pos-
sible?
a. Observation
1. What did you see? Note?
Find?
b. Grouping or
Classifying
1. What be-
longs together? ly different?
2. On what
criterion?
c. Labelling
or defining
1. What would mean?
you call these
groups?
2. What belongsthings?
under what?
- arrange value posi-
tions into a set
of priorities, and
(e) analyze alterna-
tives for consistency
and (d) develop with stated value pre-available? 3)
What are some
possible con-
sequences?
3. Does it agree with
hypothesize.1) developed them-
What would selves, or which
happen if...? are provided by
the teacher or
from other
sources.
4. Do we have to mod-
ify or revise our
solution to make it
agree with the high-
est value we have
listed?
5. Is it possible to
work out a compromise
nature of the
evidence? Facts? that most people
would agree to?
Would the com-
promise still be in
agreement with the
values we listed?
1. What is the
nature of the
evidence? Facts? that most people
would agree to?
Would the com-
promise still be in
agreement with the
values we listed?
2. How many
children are able to ex-
plain and/or support their predictions
and hypotheses? Appraisal of
4) Why do you data, size of
think this sample, logical
would happen? "PENSORING"
Children are situation supported
able to verify by data?
their predic-
tion using (how large)
logical, fact- were the samples?
1. Does the
evidential evidence syllolgism hold?
5) What would 4. Is the con-
it take for clusion likely,
this solution possible?
to be general-
ly true or prob-
ably true? 6) 1. Have we
What evidence developed a set
can you cite? of criteria?
7) What evi-
dence will you (see next page)
need re gather?
- (see next page)

2. Does it agree with
hypothesize.1) developed them-
What would selves, or which
happen if...? are provided by
the teacher or
from other
sources.

4. Do we have to mod-
ify or revise our
solution to make it
agree with the high-
est value we have
listed?

5. Is it possible to
work out a compromise
nature of the
evidence? Facts? that most people
would agree to?
Would the com-
promise still be in
agreement with the
values we listed?

1. What is the
nature of the
evidence? Facts? that most people
would agree to?
Would the com-
promise still be in
agreement with the
values we listed?

2. How many
children are able to ex-
plain and/or support their predictions
and hypotheses? Appraisal of
4) Why do you data, size of
think this sample, logical
would happen? "PENSORING"
Children are situation supported
able to verify by data?
their predic-
tion using (how large)
logical, fact- were the samples?
1. Does the
evidential evidence syllolgism hold?
5) What would 4. Is the con-
it take for clusion likely,
this solution possible?
to be general-
ly true or prob-
ably true? 6) 1. Have we
What evidence developed a set
can you cite? of criteria?
7) What evi-
dence will you (see next page)
need re gather?

(see next page)

TEACHING BEHAVIOR #1 (continued)

QUESTIONING

- | | | | | | | |
|----|------------------------|---------------------------------------|--|---|----|-----|
| I | II | III | IV | V | VI | VII |
| | | (d) <u>Developing Generalizations</u> | 8) Which of these attitudes or values is the most important? The least important? Why? | | | |
| 1. | What can you conclude? | | 9) How did you decide on this order of priorities? | | | |
- QUESTIONING
- I
 - II
 - III
 - IV
 - V
 - VI
 - VII
- (d) Developing Generalizations
1. What can you conclude?
- 8) Which of these attitudes or values is the most important? The least important? Why?
- 9) How did you decide on this order of priorities?

DISCUSSION
(Focused on the Learning Process)

The teacher is able to guide a class discussion that results in:

I Determining the Focus	II Concept Formation	III Generalizing and making inferences from data	IV Valuing for policy making-identifying values, priorities alternative courses of action	V Application	VI Analysis and evaluation	VII Selecting a policy consistent with values of highest priority
The teacher organizes and/ guides children or guides the ren's discuss- learning environ- ment so that child-situations for the purpose of listing and possible infer- ences from data. bring their categorizing.	The teacher or- ganizes the learning environment so that children can be iden- tified and discussed from data.	The teacher or- ganizes the learning environment so that children can be iden- tified and discussed from data.	The teacher guides children in preparing dis- cussion problems and cussion of a situation in which problem in values can be iden- tified and discussed room situa- tion.	The teacher en- couraged which deals life space with the priorities situations of values and the children. solution of prob- lem in which alter- native values may be cuss possible.	The teacher en- courages dis- cussions in in which discussion is en- couraged which deals life space with the priorities situations of values and the children. Children dis- cussions may be considered.	The teacher should guides children's encourage situations discussions in in which discussion the analytical of children is and/or evaluative focused on the development of a policy. Children, Current problems through discussion, could be analyzed should gain experience and evaluated for in planning policy the following that could be followed purposes: Class in a real or hypothet- ical situation.

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- A. Using ex- to the point perience and/or The teacher of identify- data retrievalvariables data that in the prob- charts children discuss- ler, the ideas, children discuss so they may see the theme, etc the possible that different conclusions may follow if the conditions of clarifica- data.
 - B. Using data the data change.
1. Do you derived from think this is the use of the important library re- sources the problem?
 2. Does your child through statement help discussion, to define the with one or main problem more other
- A. Children are able causal factor(s). to develop policies through discussion if the event was reported in an objective way.
 - B. Discussion centers on choice of alternatives of children's criteria, or other criteria.
- 1. To determine causal ap- plications to new situations from history in which new situa- tions were not too appar- ent or controversial.
 - B. Considers problems that may arise in the class. Discus- sion emphasizes the analytical process of valuing.

or idea?
3. How many
of you under-
stand what we
are trying to define the
data?

B. The teacher
tries to deter-
mine if the
children per-
ceive the
focus of the
problem.

C. Creates hypo-
thetical situations
in which values
and situations can
be changed. Child-
ren can make deci-
sions using these
situations.

D. Uses a more
formal debate
format to encour-
age discussion
of current issues.
Children are aware
of conflicting
values.

TEACHER BEHAVIOR # 3**USE OF RESOURCES**
(Focused on the Learning Process)

The teacher is able to handle resources that result in:

I Determining the Focus	II Concept Formation	III Generalizing and making inferences from data	IV Valuing for policy making-identifying values, priorities alternative courses of action	V Application	VI Analysis and evaluation	VII Selecting a policy consistent with values of highest priority
Through the use of films, use of maps, filmstrips, charts, globes, show relations, indicate, ships, locations.	Through the use of films, filmstrips, charts, globes, strips, tape recordings, make inferences, determine causes, find implications	Through the use of films, maps, relief textbooks, models, picture books, pictures identify children locate, point can enumerate, out, trace list, group, label and	Through the use of films, tape recordings, tape books, pupils can assist in identifying points, explain items of identified priorities	Maps, globes, charts may be used with pupilsmade pictures, to verify prediction, predication, hypothesesize set priorities	Tape recorders, records, pupil-overlays on overhead projectors can be used in the process of analysis and and/or judgments which have been made	Chalk boards, bulletin boards, flannel boards class constructed graphics, pictures would assist pupils in visualizing those activities growing out of decisions
introduce, present, establish boards, or clarify pupils can	From bulletin books, records boards, chalk flannel boards, pre-	flannel boards will provide pupils with visual materials to assist in exploring alternatives, setting up information, assist in extrapolating, determine causes	Bulletin boards, evaluation chalk boards will aid pupils in using logical principles and verifying predictions			

TEACHER BEHAVIOR # 4

TEACHER-PUPIL PLANNING

(Focused on the Learning Process)

The teacher is able to develop plans with pupils that result in:

I Determining the Focus	II Concept Formation	III Generalizing and making inferences from data	IV Valuing for policy making-identifying values, priorities alternative courses of action	V By asking questions that interest, challenge, intrigue.	VI Analysis and evaluation	VII Selecting a policy consistent with values of highest priority
By projecting ways to record the data e.g. ideas and weighting of data. By exploring plans for valuing, feeling, and responding to data. By showing change of direction should time or data change, or some unforeseen need arise. By generalizations are developed. Let's try to find from all a way to organize this material so labeling and we won't forget it. Be guiding away from the impossible. By using pupils the locationize our data so it is most useful? How can we present further materials and the data so that sources of we can compare it with what Sue's positive and for clarifying group has found negative observations out?	By planning ways to test out applications in new situations. By planning the conclusion or solution found. By agreeing on school and out of school situations. By helping pupils to take action. By using role playing determine the alternatives before taking action. By of the data will group and individual aptitude.	By assessing resulting full and acceptable values from previous planning session and making individual decision concerning values and valuing. By planning for activities which grow out of decisions and/or judgments which have been made.	Are we sure this is the thing to do? How might we double check in order to be sure.	By dividing responsibility for evaluation to explore plans and directions that lead them.	Do you have any suggestion as to how we might evaluate these things? What criteria will we have to consider before we make this decision? - Pass judgment?	Let's make believe and try to act as... .

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By helping the or redefining children forming groups, evaluate their labeling.
questions.
By providing some sources of information with which children can begin their planning.

would act in such a situation. What will we need to do this?

TEACHER BEHAVIOR # 5

CUEING
(Focused on the Learning Process)

I Determining the Focus	II Concept Formation	III Generalizing and making inferences from data	IV Valuing for policy making-identifying values, priorities alternative courses of action	V Application	VI Analysis and evaluation	VII Selecting a policy consistent with values of highest priority
<p>- You will be interested in that has become able to... so I think you willcept or like... - Were you ever curious about...? Do you want to find out more about..? answer.</p> <p>- Cue student - You can do more - If...then why, ' - Can you think of a related problem we studied?</p> <p>- Do you understand what you are to answer to...? How does this relate to what you did?</p> <p>- I think Group A will find...interesting, Group B will like...,</p>	<p>- Use analogy-You were absent yesterday, but I think you can figure out the answer to this.</p> <p>- You can do more - If...then why, ' - Can you think of a related problem we studied?</p> <p>- Define words or concepts.</p> <p>- You are especially good at finding clues from pictures.</p>	<p>- Can you justify that response?</p> <p>- How is this important?</p> <p>- One example is... Can you think of another?</p> <p>- You said earlier... Have you more ideas on this?</p> <p>- What startled you, was unusual, made you think, "Oh, my goodness."</p> <p>- Today, let's see ness." Why?</p> <p>- Whether we can list-Now think carefully, is that actually...? all...that...</p> <p>- Now that we have listed all... let's try to list.</p> <p>- You are especially good at finding</p>	<p>- Shift sensory channels or vary style of teaching.</p> <p>- Can you cite materials? other examples?-How would you respond to Dick's -How would you use data?</p> <p>- Can you think of a different with these things? have are...but I think but similar</p> <p>- That's possible.</p> <p>- We talked about look at data? other thoughts on this?</p> <p>- Class, what do you think is that actually...? all...that...</p> <p>- You have said...How would that affect...? -How many feel...? -Give me an example of...that uses our findings on... -Clarify by comparison or contrast.</p> <p>- Hm, very interesting. -I want you to follow up. (teacher quotes...)</p>	<p>- Do you have other ideas?</p> <p>- Did you check. do you plan to use it?</p> <p>- What do we need to change?</p> <p>- Is this suited to...? -Did the materials give you any idea?</p> <p>- What can we do -Some problems you might have are...so</p> <p>- Can one of you restate...so we will have another way to</p> <p>- What do you think would occur if...? -That's some- thing different to the original -In other words, why...? again.</p> <p>- Can you tell others what you mean in a different way?</p> <p>- What would happen if</p> <p>- What would you ask...? -Hm, very interesting. Would you..?</p>	<p>- What do you think of what we have done? How</p> <p>- What do we need to change?</p> <p>- Is this suited to...? -Did the materials give you any idea?</p> <p>- What can we do -Some problems you might have are...but I think</p> <p>- Hell, let's see what we have said.</p> <p>- Good point, are there other thoughts on this?</p> <p>- Class, what do you think of that?</p> <p>- What do you have to say question?</p> <p>- Let's get back about that...? -That's some- thing different to the original -In other words, why...? question. (State -Let's look again at...# question again.) -Show film, play, record, -Are you saying etc. to review what studied so far.*</p> <p>- We found...Can ...? -Repeat...Pause.Go on.</p>	<p>-31-</p> <p>- Can you explain?*</p> <p>- Repeat... something else? (Use figure of speech.)*</p>

Group C will	- Such as? -Would you find... challenging. like to This morning give us an example? many of you wondered if... -What does Is that on it mean? this subject? -What did you note? again at... -Let's look you did-- -Remember now we were talking about Let's ... Let's not get this confused with... -Would you like to work with A to find..? -Emphasize one word.*	one sentence idea. -Use several frames -What differences of reference as free check book, film, briefly tell us did you see? to see how others points covered? What is similar etc. about differ- ences? -Tell me more.* -Make statement. Pause a long time.	-Sue would you see?* -What do you say...* -Clarify* -Do you remember how we talked about...?* -Ask questions in small steps as in programs. -Step 1,2,3 are way.* ...What is next?* -Highlight visually.*	Who wants to check book, film, briefly tell us to see how others points covered? -We've already said...* -You mentioned you didn't quite understand... Let me state in a different way.*	-Sue would you see?* -What do you say...* -Clarify* -Do you remember how we talked about...?* -Ask questions in small steps as in programs. -Step 1,2,3 are way.* ...What is next?* -Highlight visually.*
					*Behavior can be used in nearly every column.

TEACHER BEHAVIOR #6

REINFORCING
(Focused on the Learning Process)

The teacher is able to use reinforcing statement or questions to stimulate or alter pupil behavior that will result in:

I Determining the Focus	II Concept Formation	III Generalizing and Making Inferences from Data	IV Identifying values, priorities, alterna- tive courses and action	V Application	VI Analysis and Evaluation	VII Selecting a policy consistent with values of highest
-Paul has men-	-You have mentioned a point gotten off to a good touched on.. State point.	-John (or Group A) suggested that... -You have gotten off to a good start, Sue; I off to a good start. I especially start. I like... -You expres- like... sed interest in... the correct answer.	-Well, that's an interesting idea, Jane. -Now that's a good point we haven't touched on.	-Did you hear an interesting idea? Tom's remark?	-If you...you could do this.	-If you...you were successfull
			-Listen to what Tom has said again. -You can record this for others to use.	-Encourage stu- dents to say, you contributed..	-Judy tells me 'I didn't under- stand that.	-You were successful when you attempted this recently.
			-Ask question -Where do you can... -Make mental notes of what ent can ans- each child wer correctly good, weak, all says for future -Does any-right, part of it, something we all lead ins. one have a dif- or true, etc.	-Do you agree? Disagree?	-Sue tells me you Could Jim explain what he means?"	-Sue tells me you Could Jim explainare doing a fine job as if you understand the concept
			-Approve, criti- cize, cor- rect, ampli- fy pupil's responses.	-I believe you can figure out..	-I like that!	-I'd be happy too if J's that happened to me..
			-Student then facial expressions, disappointed because... -No wonder you feel...	-You certainly could do this.	-We shouldn't...	-We can be proud of.
			-Billy really knows... -I said to... -Yes, no, un hm, right.	-Go on.	-I like that!	-I like that!
				-Teacher tells joke to release tensions so pupil can think anew.	-Partly right.	
				-Where did you ever get THAT idea?	-I see.	

POST-TEACHING TASKS

The focus in this segment is on the post-teaching tasks that the teacher is expected to perform following the teaching-learning act(s). The tasks define the behavior of the teacher in an evaluative role; one in which there is analysis and evaluation of teacher and pupil experiences in the instructional setting.

For each of the tasks an illustrative example is given to further clarify teacher behavior. Specific acts the teacher can perform are suggested but there is no intent to sequence or structure the tasks or the acts stated in the examples.

ON THE COMPLETION OF A UNIT OV WORK OR A SPECIFIC LESSON:

1. The teacher selects and/or develops an evaluative instrument or activity designed to measure how well behavioral objectives have been achieved by the pupils.

In view of the objectives stated the teacher studies measurement instruments of all types and compare them with performance activities to determine which would indicate most about the progress made. The instruments and activities include role playing, oral reporting and construction activities or teacher-made and standardized tests. The teacher must know how to administer and appraise each.

2. The teacher compares pre-instructional pupil behavior with post-instructional behavior to assess the levels of specific attitudes, understandings, and skills.

Following instruction, the teacher looks for changes in attitudes including rapport with other students. changes in opinion or the use of supporting evidence in discussions. When the teacher determines that understandings and skills are adequate, he takes note of applications in a variety of situations apart from the social studies class. Additional indications might appear in listening to others seriously, in fair play and in the level of operation.

3. The teacher evaluates pupil thinking to determine the extent to which it has been enhanced by instruction.

After careful study of the pupil's questions and statements in addition to his deliberations, the teacher may find that the student is performing at the knowledge level only. He then plans activities that require varying levels of thought such as analysis, evaluation, syntheses and interpretation. It may be necessary at times to teach the thinking process directly to the advanced student.

4. The teacher reviews the media and other instructional resources used during the unit and lesson and determines the effectiveness of each in relation to stated objectives.

If the teacher uses the recommended variety of media and materials, he is in a position to make some comparisons regarding their relative effectiveness. Should he find that only part of a film, tape or book was effective in terms of time spent, he plans to use only that part in the future. In teaching map or reference skills, notes are made regarding the most effective media for the entire group and for individuals. These will be carried over for future use.

5. The teacher is able to identify the major elements of that lesson or unit and trace the development in terms of the stated behavioral objectives.

The teacher may find that the discussion did not center around the intended topics. Those elements of the lesson are reviewed to determine the reason and whether the unintended direction was less effective. Any time the development of the lesson does not result in meeting the objectives an analysis should indicate the reasons and point to a clarification.

6. The teacher conducts individual conferences with the children for the purpose of helping them see strengths and weaknesses and for planning follow-up activities that will help (1) take advantage of strengths and (2) overcome specific deficiencies.

The pupil is even more concerned than the teacher about his personal development, even when he denies it. Care should be taken to direct the pupil individually to recognize both successes and failures or strengths and deficiencies. Then a program of extension and correction can be planned. After the child has recognized that he is having difficulty with interpretation

of map and globe information, specific exercises are planned for him to overcome this deficiency. The child who has a firm grasp of process and content can be encouraged to participate in further activities such as analyzing a news event.

7. The teacher conducts group critiques for purposes of helping them evaluate individual and group work.

How does the group react to the contribution of individual members, and how do they feel about the total accomplishment? A concerted look at the product in view of the goals and purposes will help answer both questions. The maximum use of resources and time may return a great deal more; if pupils work in small groups or individually on different tasks for a time. On still other occasions a short concerted effort of the entire group can save time and be more productive.

8. The teacher graphically analyzes the interaction patterns that occurred.

Occasionally the teacher keeps a tally of individual pupil participation and may even make documented anecdotal records of some. Recording an entire social studies session affords an opportunity to use an interaction analysis such as Flanders' for a careful study of both pupil and teacher verbal patterns.

9. The teacher appraises the strengths and/or weaknesses of the total performance of the group.

Apart from pupils' analyses, the teacher considers the work of the entire group in such activities as class discussions, sharing of resource materials, and group dynamics. He seizes upon the findings to develop responsibility, leadership and participation of the members.

10. The teacher identifies the weaknesses of his planning and/or implementing and plans accordingly to overcome them.

Should the teacher find that not enough time was allowed for the amount of content or type of strategy used in teaching, he makes specific plans to adjust either or all factors. Finding that pupils' time is wasted with unnecessary instruction, the teacher may plan more pre-testing or diagnosis. If only part of a class needed instruction given, different grouping procedures may be planned. If pupils are not participating enthusiastically, the teacher may take more time for involving them in the original planning.

11. The teacher locates ideas and information which he can use to improve performance in specific instructional tasks.

Regardless of the level of teaching performance, indications of potential improvement are constantly appearing. Every teacher knows how to contact the services of professional and commercial sources. Curriculum guides and materials offer suggestions for organization and learning activities. Professional journals are essential to keeping us with innovation. The teacher must be able to select that story, film, book, or machine that will best do a particular task. Use of library reference data is basic to the location of any information needed.

APPENDIX A

EXAMPLES : Pre-Teaching Tasks

<u>Terms</u>	<u>Examples</u>
Generalization from Discipline	A. "The simpler a culture is, the fewer are the materials and the narrower is the range of knowledge of which the inventor can be possessed, so that as a consequence the possibilities of invention are more limited." John M. Hofstrand: <u>Social Science Generalizations for Use in the Social Studies: Creating Tools, Techniques, and Social Studies in Elementary School</u> as cited in John U. Michaelis, editor. 32nd Yearbook of the NCSS, p. 86, Number 40, 1962.
Lower order or child-size generalizations	B. 1. The environment can be used in different ways by different groups of people. 2. The more understanding a people have of their environment, the more choices they have as to how they will use their environment.
A Big Idea or Main Idea (possible)	C. Change in one aspect of life affects other aspects of living.
Key Concepts from the Original, lower order, and "Big Idea"	D. environment culture (groups, people) knowledge (understandings) inventor invention (choices) materials aspects of life
Content Samples	E. Plains Indians, Early Settlers

Functions

(It is assumed that the class has had similar experiences previously. Hence the class could be divided into two groups, with one handling the Plains Indians as indicated and another handling the early settlers in the Great Plains).

Cognitive skills: Cognitive Task I-Concept Development.

Academic Skills: Note-taking, use of index, table of contents, and card catalog.

Cognitive Skills: Discrimination-Locating relevant information.

F. Learning Experiences

1. Given the question: "What can you tell me about the way the Plains Indians used their environment?" the students are able to participate in a group discussion led by the teacher in which they list the items of information, group the items that go together (giving the basis for the grouping), and label the groups. (Teacher saves copy for use in learning experience 7.)
2. Given a variety of textbooks and trade books, within their reading ability, the pupils are encouraged to augment their information from other sources as well. Given a review of note-taking skills and procedures for using the index, table of contents, and card catalog, they are able to work independently in employing these skills to find and record, their information for the following questions:
 - a. What was the environment like?
 1. Weather
 2. Topography
 3. Chief vegetation
 4. Chief animal life
 5. Chief rivers
 - b. What were the homes like?
 - c. What did they use for food?
 - d. What did they use for clothing?
 - e. What work did they do?
 - f. What tools did they use?
 - g. What did they use for transportation?
 - h. What did they use for communication?
 - i. How were they governed?

- Provision for individual differences:**
- Reading ability
 - Learning styles

Cognitive Skills:

- Discrimination of relevant information
- Verification

Cognitive Skills:

- Discrimination
- Analysis
- Synthesis

- Given pictures, films, filmstrips, and recordings pertaining to the Plains Indians, the pupils are able to augment (and verify, at times) their information from other sources.

- Given the following data retrieval chart, the students are able to record their information from learning experiences 2 and 3 above in the appropriate places.

<u>Plains Indians</u>	<u>Environment</u>
Homes	
Food	
Clothing	
Work	
Tools	
Transportation	
Communication	
Government	

(First part of a data retrieval chart used to facilitate recording and organizing information in preparation for later comparisons. Other columns will be added on for other content samples.)

**Preparation for Cognitive Task II--
Interpretation of Data.)**

- Given the above chart in a completed form the pupils are able to participate in a teacher-led discussion where they focus on the following; question: "What can you say about effect of the environment on the ways in which they learned? They are able to make inferences which go beyond the factual data they have located and are able to state several generalizations.

Cognitive Skills

- Cognitive Task II--Interpretation of Data
- Summarizing generalization for content sample I (Verbal).

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Functions (cont)

Generalizations in pictorial form. Provision for individual differences in learning style.
(Visual)

Cognitive Skills:
Cognitive Task IV--Analysis and Evaluation

Learning Experiences (cont.)

6. Given the preceding experiences, the pupils or group of them) are able to make a mural which illustrates the ways in which the Plains Indians were dependent on their environment.
7. Having completed the above learning experiences, the pupils are now able to compare their findings from learning experiences 2 - 7 with their initial impression in the initial experience 1. They should be, and give the discrepancies reported corrections indicated.
8. Given the question: "What can you tell me about the ways early settlers of the Great Plains used their environment?" The pupils are able to participate in a group discussion led by the teacher in which they list the items of information, group the items that go together (giving the basis for the grouping), and label the groups. (Teacher saves copy for use in learning experience 14.)
9. Given a variety of textbooks and trade books within their reading ability, the pupils are encouraged to augment their information from other sources as well. Given a review of note-taking skills and procedures for using the index, table of contents, and catalog, they are able to work independently in employing these skills to find and record their information for the following questions:

Functions (cont.)

Cognitive Skills: Discrimination--Locating relevant information

Learning Experiences (cont.)

- a. What was the environment like?
 - 1) Weather
 - 2) Topography
 - 3) Chief rivers
 - 4) Chief vegetation
 - 5) Chief animal life
 - b. What were the homes like?
 - c. What did they use for food?
 - d. What did they use for clothing?
 - e. What work did they do?
 - f. What tools did they use?
 - g. What did they use for transportation?
 - h. What did they use for communication?
 - i. How were they governed?
10. Given pictures, films, filmstrips, and recordings pertaining to the early settlers of the Great Plains, the pupils are able to augment (and verify, at times) their information from other sources.
- Provision for individual differences:
- a. Reading ability
 - b. Learning styles
- (Second part of a data retrieval chart used to facilitate recording and organizing information in preparation for later comparisons. Other columns can be added for other content samples.)
- Preparation for Cognitive Task II--Interpretation of Data.
11. Given the following data retrieval chart, the pupils are able to record their information from learning experiences 9 and 10 above in the appropriate places. (It is assumed that the data on the Plains Indians will have been reported earlier to the whole class by Group I and duly recorded. At this point Group II will make their report to the full class for recording in the second column ("Early Settlers").

Functions (cont.)

Learning Experiences (cont.)

11. Continued (Data Retrieval Chart)

	Plains Indians (from Group I)	Early Settlers (from Group III)
Environment		
Homes		
Food		
Clothing		
Work		
Tools		
Transportation		
Communication		
Government		

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12. Given the above chart in a completed form, the pupils are able to participate in a teacher-led discussion where they focus on the following question: "What can you say about the effect of the environment on the ways in which the settlers lived?" The pupils are able to make inferences which go beyond the factual data they have located and are able to state several generalizations.
- Cognitive Skills**
- a. Cognitive Task II--Interpretation of Data
 - b. Summarizing generalization for content sample II (verbal).

Functions (cont.)

Generalizations in pictorial form. Provision for individual differences in learning style. (Visual)

Cognitive Skills:

Cognitive Task IV: Analysis and Evaluation

13. Given the preceding experiences, the pupils are able to make a mural which illustrates the ways in which the Plains Indians were dependent on their environment.
14. Having completed the learning experiences for numbers 8 - 13 above, the pupils are now able to compare their findings from learning experiences 9 - 13 with their initial impressions recorded in learning experience 8. They are able to point out the discrepancies 8. They are able to point experience, what the corrections should be, and give the data which supports the corrections indicated
15. Given the completed data retrieval chart suggested in learning experience 11 above, the pupils are able to participate in a teacher led discussion in which they are asked to compare the way in which the environment affected the way in Plains Indians with the way of the life of the early settler. "What can you say about the ways the same environment is used by people with different backgrounds?" (Total class discussion).
16. Given the fact that before long a number of important inventions became available to settlers who lived in the Great Plains, (i.e. the steel plow, the Colt revolver, the reaper, and the windmill), and given the necessary reference materials, and given the pupils are able to record the appropriate data.

Academic Skills: Note-taking, use of index, table of contents, and card catalog.

Cognitive Skills: Discrimination--locating relevant information, making inferences

(It is assumed that the pupils will have internalized the steps to this. If not, it is assumed the teacher will provide guidance necessary.

Functions (cont.)

Learning Experiences (cont.)

Cognitive Skills:
Interpretation of data
Making inferences
Making generalizations

17. Given the completed chart including the data for both "early settlers" and "later settlers," the pupils are able to participate in a teacher-led discussion in which they are asked the question: "What changes did the inventions mentioned in experience 16 make in the way settlers of the Great Plains used the environment?"

Cognitive Skills:

Cognitive Task III--Application of principles.
Cognitive Task IV--Analysis and Evaluation.

Affective:
Identifying conflicting values
Identification of alternatives
and possible consequences.

18.

Given the discussion in experience 17 as a background, the pupils are able to make inferences and generalize about the effects these changes on the Plains Indians and their use of the environment. They are able to cite support for their inferences and generalizations.

19.

Given the idea that the changes in the original environment introduced by the settlers were threatening to the Indians and their ways of life with the result that fighting soon broke out between the Indians and the settlers, the pupils are able to participate in a teacher-led discussion dealing with the feelings of the Indians and settlers, with the focal question: "To whom did the land belong?" followed by the use of the data retrieval chart suggested below:

Indians	Settlers
a. Who owned the land?	
b. On what basis was it claimed?	
c. How was the matter settled?	
d. What might have been the result of each?	
e. How was each affected?	
f. What might have been the result of each?	
g. In what way was the actual settlement beneficial to each?	

Functions (cont.)

Learning Experiences (cont.)

Affective
Ordering of values
Choosing courses of action reflecting
values assigned highest priority.

20. Given the foregoing experience as a background, the pupils are able to discuss the question "In the light of what you know today, what settlement of the conflict would you recommend?" identifying the values implicit in their proposals. Having identified the values, they can rank them in terms of importance and identify those settlements proposed which are consistent with the highest values.

Cognitive Skills: Generalization

21. Given the above experiences as a background, the pupils are able to summarize the effects of inventions on the lives of the settlers and of the Indians. "What can you say about the influence of inventions on the way people live?"
22. Given a picture of fenced land in the Great Plains region, what changes would be likely to occur for settlers?

Inquiry session
Application of Principles

Cognitive Skills: Cognitive Task IV --
Analysis and Evaluation

23. Given the predictions of the pupils to experience 22 above, they are able to analyze their predictions in terms of adequacy of data to support them and in terms of the feasibility of the predictions for the people involved.
24. Given the background of experience 23, above the pupils are able to verify their predictions from data on what actually took place secured from books, films, etc.

Cognitive Skills: Verification of
hypothesis

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APPENDIX B

An Example of THE TEACHING - LEARNING PROCESS

I. PRE-TEACHING TASKS:

(These are examples of Pre-Teaching Task #9)

Behavioral objectives for a short unit of study on the concept of "division of labor (about 4-5 lessons over 1 week.) 3rd grade.

1. The pupils will be able to give orally a definition of division of labor. This definition will include the following elements:
 - a. more than one person is involved to make the product.
 - b. each person makes a part and when all parts are put together the object is completed.
 - c. each person makes the same part over and over.
2. The pupil will be able to conclude that working by dividing duties produces the product faster than making it by himself.
3. The pupils will discover as evidenced by their verbalization the idea of specialization, i.e., that by doing only one part of the whole many times, he will be able to do that part better than trying to do all parts well.
4. The pupils will write three objects or areas in which the concept of division of labor is used. All elements of the definition in (1) will be evident in the examples given.

II THE TEACHING-LEARNING ACT USING THE TRI-U SYNTHESIS MODEL

I. Determining the Focus

3. The Teacher will identify the task for the students. (details to be added).

Note: Students will learn the concept of "division of labor".

of the "assembly-line" process will be compared with a group of individual craftsmen each of whom works alone to fashion the product. Since a pre-determined model will be used, the teacher has elected to bypass BC Task I (Concept Formation) temporarily, in order to generalize and make inferences about the model, BC Task II. The teacher will then return to Task I in order to label and define the concept "division of labor."

II. Concept Formation

This is an intended rotation of strategies. Given the generalizations developed in (II) based on the observations from the two groups, the "grouping," a part of BC Task I, was already accomplished (division of labor). (Note that students will be able to label and define the process involved in the pre-set model.)

Cognitive Task I

Teacher Activities:

Tell me again how Group B made their product? Go over characteristics? What was the main difference?

Can we give this way of making things a name?

**Pupil Activities
Listing**

Labeling

Concept:
Division of Labor

III. Generalizing and Making Inferences from Data

The teacher is able to select and organize appropriate learning activities in such a way that children will be able to identify appropriate points of data, explain, relate, and make inferences about the data, in order to formulate generalizations about the division of labor.

Cognitive Task II

Teacher Activities:

1. Organize class into 2 groups.

Group A - Make product individually,

Group B - Divide duties. (Equal number of children in each group.)

2. After several items are made, activity is stopped and a class discussion is conducted. How did the 2 groups make products?

1. Looking at chart, what happened here?

How do we know that what you say is true?

Pupil Activities: Identifying Points

Data Retrieval Chart

Group A Group B

Interpreting How product was made to how made and the length of time it took.

Making inferences.

Cognitive Task III:

Teacher will be able to select and organize appropriate learning activities in such a way that children will be able to predict consequences and develop hypotheses, explain and support predictions and hypotheses, verify the predictions and hypotheses in order to apply principles to new situations.

Teacher Activities

Problem: Making school lunches. What would happen if one person made our lunches?

Why do you predict that this would happen?
Are there other alternatives?

Application
of principle

Predicting Consequences
Hypothesizing
Example: It would probably take too long, she would make something very simple -- hot dog-- We would have no lunches.

Division of labor
is used in making
school lunches for
faster production
(and possibly
application of other
generalizations such
as specialization.)

Pupil Activities

Explaining, supporting
predictions/hypotheses

1. List conditions
2. Visit cafeteria

III. POST-TEACHING TASKS

The pre-teaching objectives listed on p. 1 will be evaluated by:

- A. Children's verbal responses in classroom discussion as indicated in the behavioral objectives (#1,2,3).
- B. Children's written responses in class assignment as indicated in behavioral objective #4.
- C. Passing of an objective test (given below) at a 90/90 level.

Objective Test:

1. What was the main difference between the way Group A made the product and the way Group B made it. (Select one)
 - a. The colors of the paper were different.
 - b. Group A had more people than Group B.
 - c. The people in group A had to make the product all by themselves, whereas the people in group B made parts and put them together.
2. We call the way Group B made their product:
 - a. Parts of a whole
 - b. Division of labor
 - c. Addition of labor
 - d. None of the above

Etc.

APPENDIX C TEACHING-LEARNING PROCESS RELATED TO ITS SOURCES

Structure-Inquiry Modell	Taba Model ²	Michaelis - California Models ³	Tri-U Synthesis Model
Level I, Type I	Cognitive Task I	Analytic Mode	Determining the Focus
1-What did you see? Note? Find? (enumeration)	1-Observation 2-Classification 3-Definition	Integrative Mode 1-Observation 2-Classification 3-Definition	Policy-Making Mode
2-What belongs together? On what criterion (grouping)? 3-What would you call these groups? What belongs under what (labeling)?			I Concept Formation A-Observation B-Grouping or classifying C-Labeling or defining
Level II	Cognitive Task II	4-Contrastive Analysis	II-Generalizing & Making Inferences from data
Type I for comparison	1-What did you note? See? Find? 2-Relating points to each other	4-Comparison	A-Comparing and Contrasting(differentiating) -52-
Type II for contrastive-analysis	Data Retrieval Chart	Assumes prior data from analytic mode & integrative mode 1-Given a problem, identify the sub-problems. 2-Identify alternative positions & values represented.	B-Interpreting C-Making inferences D-Developing Generalizations
		5-Generalization (Reading tables, graphs, etc. Translating from one contrast etc., translating from one to another, such as language to language to another, such as other, such as from graphics from graphics to verbal language.)	III-Added Dimension for Policy Making Identifying conflicting values implicit in the data and the inferences for different samples.
		3-(Cognitive Task II) What does this mean? What would you conclude? "Accommodation, Taba, Piaget.	Ordering of values according to PRIORITY Identification of alternatives. course of action

Level III	<u>Cognitive Task III</u>	Omitted	4-Trial of solutions (alternatives available).	Iv-Application
If-Then	Application of principles - "What would happen if...?"		Eliciting of effects of alternative actions and the possible consequences.	
		7-Inference (Is this psychologically miss-placed?)	7-Inference (Should it be placed after step 5?)	
Level IV	<u>Cognitive Task IV</u>	Evaluation	Evaluation	V-Analysis and Evaluation
Reflective Inquiry	Analysis & Evaluation:	1. Replicable 1. Identify points 2. Considers possibility	1. Believability 2. Scientific fit 3. Examines feasibility, desirability.	5-Testing consequences of alternatives Test of alternative course available.
			2. Significance (so what?)	
				6-Deciding (VI-Added Dimension for policy-making)
				Selecting a course of action consistent with values of highest priority.

Footnotes:

1See Appendix E below.

2Hilda Taba. Teachers' Handbook for Elementary Social Studies.

3Adapted from the draft version of the California Statewide Framework for a New Social Science Curriculum. Authorized by the State Board of Education, 1968.

APPENDIX D

Cognitive Task IV
Analysis and Evaluation

Overt Activity

1. Edentity Points

Discriminates regarding kinds of evidence available, extent of each kind.

Covert Mental Operation

Eliciting Questions

What is the nature of the evidence? (Facts, inferences from facts, logical inferences--If-then)

2. Considers the possibility

Appraises adequacy of support-data, number of samples from which it is drawn, adequacy of samples, logic of reasoning.

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Is (the position) supported by data? How man samples bear it out? Does the syllogism hold? Are the necessary conditions available? Likely to be?

3. Examines the feasibility/ desirability

Evaluates in terms of operant forces evident: credibility, capability, dominant values, influence of power structure.

Is (the position) consistent with the criteria: e.g., temperament, social arrangements, economic conditions, etc? What changes are required? What problems of acceptance are indicated?

Note: This cognitive task can be combined with Cognitive Tasks II and III of Taba's model.

APPENDIX E
STRUCTURED INQUIRY

Levels (Low)	<u>Random--Concept Development</u>	<u>Comparative--Interpretation of Data</u>	<u>If-Then--Application of Principles</u>
1	<p>Picture: Primitive Agriculture What can you tell from the picture?</p> <p>Type I: Map: Roseboro What can you tell about Roseboro from the map? map?</p> <p>Type II: Development of some models: Central place, transportation, special purpose.</p>	<p>Type I: Map interpretation: Roseboro <u>Then</u> and Roseboro <u>Now</u></p> <p>What changes have occurred? Why have they occurred? How have they affected the people?</p>	<p>Type II: Comparison of categorical models, e.g. Central Place city with Transportation- Break of Bulk city.</p> <p>Emphasis on identification of principles, explaining; not on predictions, not on hypothesizing regarding new/novel situation. No alternative solutions, etc.</p>
2	<p>Picture: (same place as--) Picture: (same place as--) Agriculture <u>Then</u> (primitive) Production chart: <u>Then</u></p> <p>How do you account for the importance/significance of these two groups of data?</p>	<p>Picture: (same place as--) Agriculture <u>Now</u> ("modern") Production chart: <u>Now</u></p> <p>How do you account for the importance/significance of these two groups of data?</p>	<p>Picture: Present an agricultural scene from Non- Western (or early American) source.</p> <p>If you introduced (a specified innovation) what changes would you expect? Why?</p>
3			<p>If you introduced (a specified condition) what changes would you expect?</p> <p>If you were planning for an orderly development for (Roseboro) in 1980, given present trends, what would your plans for land-use be? Transfer from categorical use of models by teacher to pupil use of models as a category.</p>

APPENDIX E (cont.)

<u>Level</u>	<u>Reflection on the Process of Inquiry--Analysis and Evaluation</u>
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- 4 Appraisal of question strategies with the pupils
Questions used in a random search
Questions that eliminated some of the randomness of the search--narrowed the focus
Questions employed in a series by an individual to produce relevant information efficiently
Questions that verified theories, tested hypotheses

This strategy can be used at all levels to increase efficiency.

Note: These patterns are intended to serve as inquiry counterparts for the cognitive tasks. Thus the two systems can be rotated to enhance learning.